	TEST REPO	ORT		
FCC ID	2AJ3G-H8008AQ			
Test Report No:	TCT210803E005			
Date of issue:	Aug. 05, 2021	e		
Testing laboratory: :	SHENZHEN TONGCE TE	STING LAB		
Testing location/ address:	TCT Testing Industrial Par Street, Bao'an District She Republic of China			
Applicant's name: :	Zhuhai RaySharp Technol	logy Co., Ltd		
Address:	NO.100 OF TECHNOLOG ZONE, ZHUHAI, China	Y ROAD 6, N	ATIONAL HI-	TECH
Manufacturer's name :	Zhuhai RaySharp Technol	logy Co., Ltd	$\langle \mathcal{O} \rangle$	
Address::	NO.100 OF TECHNOLOG ZONE, ZHUHAI, China		-,	TECH
Standard(s):	FCC CFR Title 47 Part 15 FCC KDB 558074 D01 15 ANSI C63.10:2013			2
Test item description :	Wireless Network Video R	ecorder		
Trade Mark :	N/A		No.	
Model/Type reference :	RS-H8008AQ-N-W, A03-H A03-H8108AQ-N-W, zzxx- blank; y=A-Z; z=A-Z or bla	-Hxxxxyyy-zzz		=0-9 or
Rating(s):	DC 12V			
Date of receipt of test item	Aug. 03, 2021			
Date (s) of performance of test:	See dates for each test ca	ise	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Tested by (+signature) :	Brave Zeng	Brave	) Jeng.	K)
Check by (+signature) :	Beryl Zhao	Beng	ghas	

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## TCT 通测检测 TESTING CENTRE TECHNOLOGY 1. General Product Information

## 1.1. EUT description

Test item description:	Wireless Network Video Recorder
Model/Type reference:	RS-H8008AQ-N-W
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	2.7dBi
Rating(s):	DC 12V
Remark:	The EUT has two kinds of memory, one is 2Gb each for two chips, and the other is 4Gb for one chip.

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

## 1.2. Model(s) list

No.		Model	No.		Tested wit	n
1	$\mathcal{O}$	RS-H8008AQ-N-W			$\boxtimes$	
Other models	A03-H8008AQ-N-W, NVW-800, A03-H8108AQ-N-W, zzxx-Hxxxxyyy-zzz-zzzzzz (x=0-9 or blank; y=A-Z; z=A-Z or blank)					
	AQ-N-W is tested more yout, only different on nodels.					
(,	Ó		K)		K)	

## TCT通测检测 TESTING CENTRE TECHNOLOGY 1.3. Operation Frequency

### For 802.11b/g/n(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

### For 802.11n (HT40)

- 7								
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
			4	2427MHz	7	2442MHz		
(	6)	(	5	2432MHz	8	2447MHz	G`)	(20
	3	2422MHz	6	2437MHz	9	2452MHz		

#### Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

#### 802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

#### 802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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# 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

#### Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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## 3. General Information

### 3.1. Test environment and mode

Operating Environment:		
Temperature:	25.0 °C	C)
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	
Tost Modo:	•	

### Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations (The value of duty cycle is 98.46%)
-------------------	---

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it
was worst case.

Mode	Data rate			
802.11b	1Mbps			
802.11g	6Mbps			
802.11n(H20)	6.5Mbps			
802.11n(H40)	13.5Mbps			
Final Test Mode:				
Operation mode:	Keep the EUT in continuous transmitting with modulation			

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive. 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.46% with maximum power setting for all modulations.

# TCT通测检测 3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	CS-1202000	/		(C)

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.





## 4. Facilities and Accreditations

## 4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A-1
  - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

## 4.2. Location

## SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park, Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

## 4.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item		MU
1	Conducted Emission		±2.56dB
2	RF power, conducted		±0.12dB
3	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1G)		±3.92dB
5	All emissions, radiated(>1G)		±4.28dB
6	Temperature		±0.1°C
7	Humidity	$(\mathcal{C})$	±1.0%





## 5. Test Results and Measurement Data

## 5.1. Antenna requirement

### Standard requirement: FCC Part15 C Section 15.203 /247(c)

### 15.203 requirement:

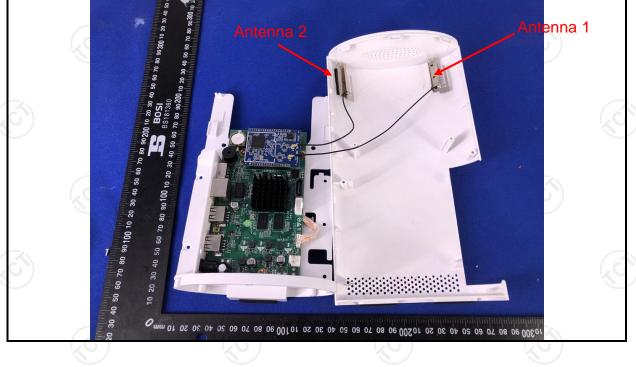
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### E.U.T Antenna:

The EUT has two internal antennas, and the best case gains of the both antennas are 2.7dBi.







## 5.2. Conducted Emission

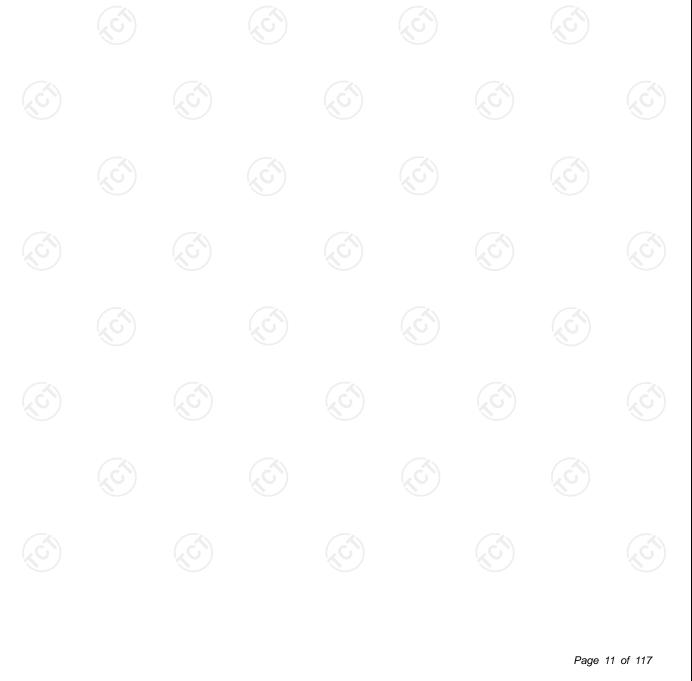
### 5.2.1. Test Specification

z.i. rest opecification			(					
Test Requirement:	FCC Part15 C Section	15.207						
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz						
Receiver setup:	RBW=9 kHz, VBW=30	) kHz, Sweep time	e=auto					
	Frequency range	Limit (	dBuV)					
	(MHz)	Quasi-peak	Average					
Limits:	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	Reference	<b>G</b> <sup>1</sup>						
Test Setup:	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m							
Test Mode:	transmitting with modu	ulation	C					
Test Procedure:	<ol> <li>The E.U.T and simple power through a lin (L.I.S.N.). This print impedance for the n</li> <li>The peripheral device power through a L coupling impedance refer to the block photographs).</li> <li>Both sides of A.C. conducted interferer emission the relation</li> </ol>	e impedance stat ovides a 50ohm neasuring equipm ces are also conne ISN that provides e with 50ohm tern diagram of the . line are checken nce. In order to fi	pilization network /50uH coupling ent. ected to the main s a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum					
	emission, the relative the interface cables ANSI C63.10:2013	s must be chang	jed according to					

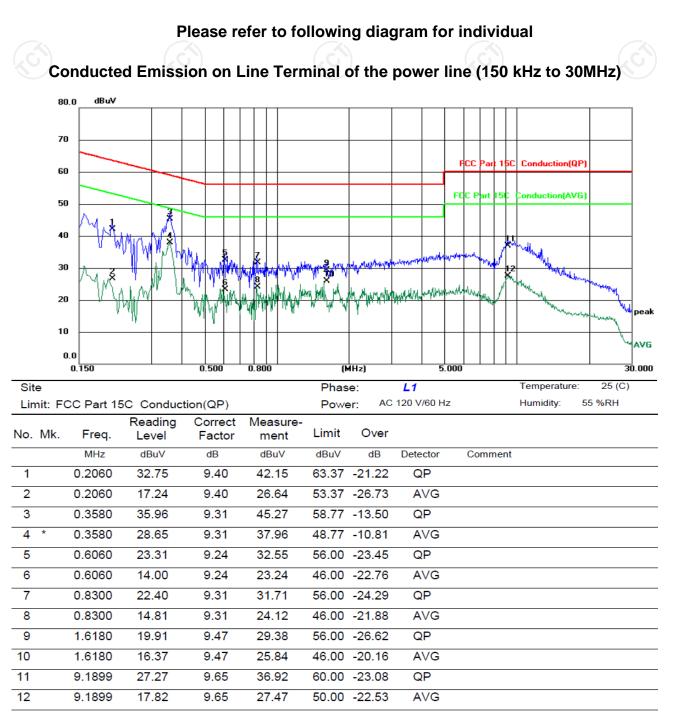
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### 5.2.2. Test Instruments

Conc	Conducted Emission Shielding Room Test Site (843)							
Equipment	Equipment Manufacturer Model Serial Number C							
Test Receiver	R&S	ESCI3	100898	Jul. 07, 2022				
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021				
Line-5	тст	CE-05	N/A	Sep. 02, 2021				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				
				e				



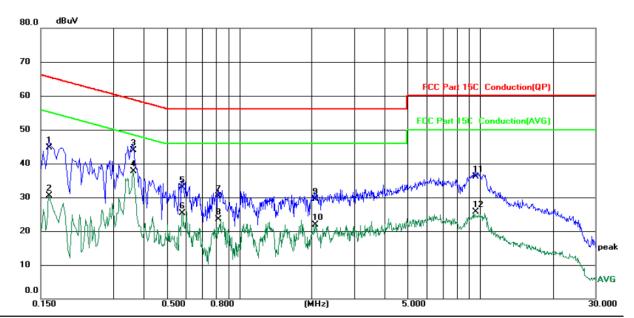
### 5.2.3. Test data



#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = LISN factor + Cable loss Measurement  $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor \, (dB)$ Limit  $(dB\mu V) = Limit$  stated in standard Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V) Q.P. =Quasi-Peak AVG =average \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz Page 12 of 117

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### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Site					Phas	e:	Ν		Temperature	e: 25 (C)
Limit: FC	C Part 15	C Conducti	on(QP)		Powe	er: AC	120 V/60 Hz		Humidity:	55 %RH
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment		
1	0.1620	35.25	9.43	44.68	65.36	-20.68	QP			
2	0.1620	21.14	9.43	30.57	55.36	-24.79	AVG			
3	0.3620	34.56	9.33	43.89	58.68	-14.79	QP			
4 *	0.3620	28.34	9.33	37.67	48.68	-11.01	AVG			
5	0.5780	23.66	9.27	32.93	56.00	-23.07	QP			
6	0.5780	16.00	9.27	25.27	46.00	-20.73	AVG			
7	0.8139	21.06	9.32	30.38	56.00	-25.62	QP			
8	0.8139	14.27	9.32	23.59	46.00	-22.41	AVG			
9	2.0620	20.13	9.45	29.58	56.00	-26.42	QP			
10	2.0620	12.43	9.45	21.88	46.00	-24.12	AVG			
11	9.5300	26.48	9.67	36.15	60.00	-23.85	QP			
12	9.5300	15.98	9.67	25.65	50.00	-24.35	AVG			

#### Note1:

Freq. = Emission frequency in MHz Reading level ( $dB\mu V$ ) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement ( $dB\mu V$ ) = Reading level ( $dB\mu V$ ) + Corr. Factor (dB)

Limit ( $dB\mu V$ ) = Limit stated in standard

Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

Q.P. =Quasi-Peak AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

#### Note2:

Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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## 5.3. Maximum Conducted (Average) Output Power

### 5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	KDB 558074 D01	v05r01, KDB66	2911 D01 v02r01			
Limit:	30dBm	$\left( \mathcal{C}^{\prime}\right)$				
Test Setup:	Spectrum Analyzer	<mark>_</mark>	EUT	KC		
Test Mode:	Transmitting mod	e with modulatio	n			
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrul analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the conducted output power and record the results in the test report.</li> </ol>					
Test Result:	PASS					

### 5.3.2. Test Instruments

(						
1	Equipment Manufact		Model	Serial Number	Calibration Due	
	Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021	
	RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021	
	Antenna Connector	ТСТ	RFC-01	N/A	Sep. 11, 2021	



## 5.3.3. Test Data

Configuration IEEE 802.11b/ Antenna 1+Antenna 2						
Test channel	Maximum Cond Output Po	· · · · ·	Limit (dBm)	Result		
	Antenna 1	Antenna 2				
Lowest	15.55	14.67	30.00	PASS		
Middle	14.38	16.23	30.00	PASS		
Highest	15.13 15.13		30.00	PASS		

Configuration IEEE 802.11g/ Antenna 1+Antenna 2							
Test channel	Maximum Conducted (Average) Output Power (dBm)		Limit (dBm)	Result			
	Antenna 1	Antenna 2					
Lowest	14.03	15.02	30.00	PASS			
Middle	14.88	14.93	30.00	PASS			
Highest	14.83	13.91	30.00	PASS			

Configuration IEEE 802.11n(H20)/ Antenna 1+Antenna 2							
Test channel	Maximum Conducted (Average) Output Power (dBm)			Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total				
Lowest	14.31	13.54	16.95	30.00	PASS		
Middle	14.20	14.27	17.25	30.00	PASS		
Highest	14.23	13.27	16.79	30.00	PASS		

Configuration IEEE 802.11n(H40)/ Antenna 1+Antenna 2

Test channel	Maximum Conducted (Average) Output Power (dBm)			) Limit (dBm) Result		
	Antenna 1	Antenna 2	Total			
Lowest	14.63	13.33	17.04	30.00	PASS	
Middle	14.26	14.20	17.24	30.00	PASS	
Highest	14.33	14.25	17.30	30.00	PASS	

Note: G<sub>ANT</sub> = 2.7dBi, Array Gain= 10log(N<sub>ANT</sub>/NSS)= 3.01dBi

Directional Gain=G<sub>ANT</sub> + Array Gain= 5.71dBi < 6dBi, So limit=30dBm

Refer to Appendix A: Test Result of Conducted Test

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## 5.4. Emission Bandwidth

### 5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.2	247 (a)(2)
Test Method:	KDB 558074 D01 v05r01	
Limit:	>500kHz	(C)
Test Setup:	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with mo	dulation
Test Procedure:	resolution bandwidth (R Video bandwidth (VBW	usly. with the spectrum analyzer's (BW) = 100 kHz. Set the ) = 300 kHz. In order to make ent. The 6dB bandwidth must z.
Test Result:	PASS	

# 5.4.2. Test Instruments

	RI	F Test Room	ı	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
RF Cable (9KHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2021
Antenna Connector	🕥 тст	RFC-01	N/A	Sep. 11, 2021









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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

## 5.5. Power Spectral Density

## 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r01, KDB662911 D01 v02r01
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
T	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW.</li> <li>Detector = RMS, Sweep time = auto couple.</li> <li>Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 5.5.2. Test Instruments

		RI	F Test Room	1	
	Equipment	Manufacturer	Model	Serial Number	Calibration Due
0	Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021
	RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021
	Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2021

## 5.5.3. Test data

Configuration IEEE 8	02.11b/ Antenna	1, Antenna 2			
Test channel		Spectral Density n/3kHz)	Limit	Result	
	Antenna 1	Antenna 2	(dBm/3kHz)		
Lowest	-11.07	-11.69	8.00	PASS	
Middle	-12.15	-10.10	8.00	PASS	
Highest	-11.20	-11.33	8.00	PASS	
5°) (20	51)	(xG)	(20)		
Configuration IEEE 8	02.11g/ Antenna	1, Antenna 2			
Test channel		Spectral Density n/3kHz)	Limit	Result	
	Antenna 1	Antenna 2	(dBm/3kHz)		
Lowest	-13.23	-12.57	8.00	PASS	
Middle	-12.41	-11.92	8.00	PASS	
Highest	-12.45	-13.58	8.00	PASS	

Configuration IEEE 8	02.11n (HT20	0)/ Antenna 1	l, Antenna	a 2	
Test channel			Limit	Result	
	Antenna 1	Antenna 2	Total	(dBm/3kHz)	
Lowest	-13.19	-13.49	-10.33	8.00	PASS
Middle	-13.46	-13.42	-10.43	8.00	PASS
Highest	-13.37	-14.20	-10.75	8.00	PASS
	C				

Configuration IEEE 802.11n (HT40)/ Antenna 1, Antenna 2							
	Test channel	AVG Power Spectral Der (dBm/3kHz)		AVG Power Spectral Density (dBm/3kHz)			Result
		Antenna 1	Antenna 2	Total	(dBm/3kHz)		
	Lowest	-16.06	-17.34	-13.64	8.00	PASS	
	Middle	-16.30	-16.51	-13.39	8.00	PASS	
	Highest	-16.40	-16.39	-13.38	8.00	PASS	

*Note:* G<sub>ANT</sub> = 2.7dBi, Array Gain= 10log(NANT/NSS)= 3.01dBi

Directional Gain=G<sub>ANT</sub> + Array Gain= 5.71dBi <6dBi, So limit=8dBm/3kHz

Refer to Appendix A: Test Result of Conducted Test

## 5.6. Conducted Band Edge and Spurious Emission Measurement

## 5.6.1. Test Specification

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Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r01
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> </ol>
	<ul><li>4. Measure and record the results in the test report.</li><li>5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li></ul>

### 5.6.2. Test Instruments

	RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021				
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021				
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2021				

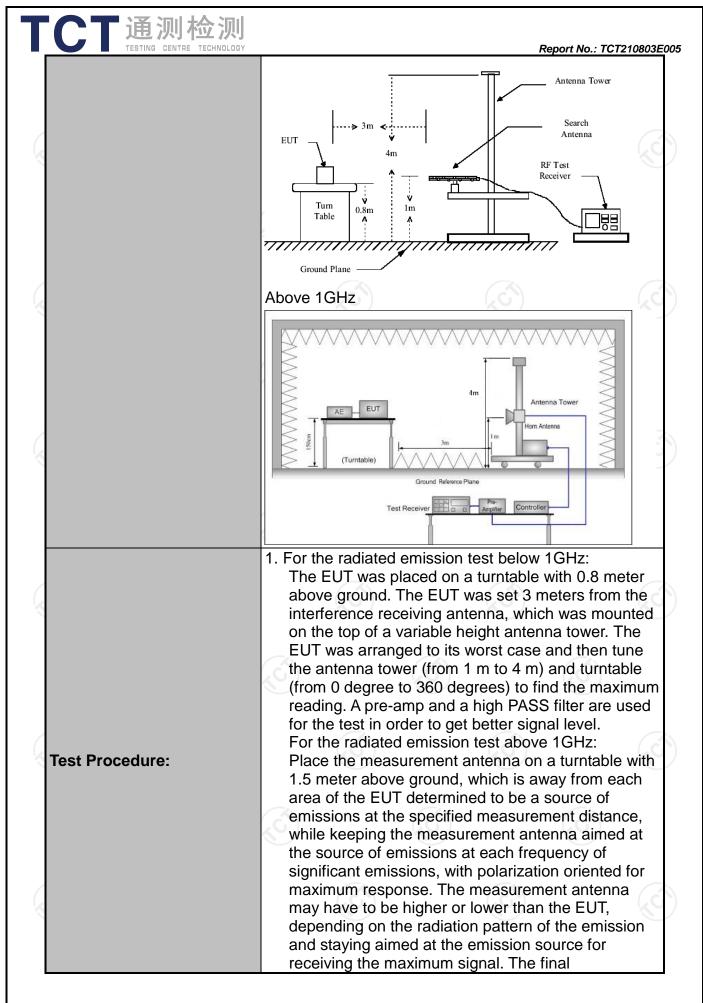
			Page 2	20 of 117

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### 5.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209				
Test Method:	ANSI C63.10	): 2013					
Frequency Range:	9 kHz to 25 (	GHz	Z		C	6	
Measurement Distance:	3 m	X	9		Z	)	
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Transmitting	mode wit	h modulat	ion		6	
	Frequency 9kHz- 150kHz	Detector Quasi-peal	RBW C 200Hz	VBW 1kHz		Remark si-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peal Quasi-peal		30kHz		si-peak Value	
Receiver Oetup.	30MHz-1GHz	Quasi-peal	120KHz	300KHz	Quas	si-peak Value	
	Above 1GHz	Peak	1MHz	3MHz		eak Value	
		Peak	1MHz	10Hz	Ave	erage Value	
	Frequer	су	Field Stro (microvolts			asurement nce (meters)	
	0.009-0.4	490	2400/F(I	(Hz)		300	
	0.490-1.7	705	24000/F	KHz)		30	
	1.705-3		30		6	30	
	30-88		100		X	3	
Limit:	88-216		150 200		3		
Limit.	216-96 Above 9		200 500		3		
		00	500			3	
	Frequency		eld Strength crovolts/meter)		ce	Detector	
			500	(meters) 3		Average	
	Above 1GH	Z	5000	3	N.	Peak	
Test setup:	For radiated	emissions		Pre -A	Compu		



	<u>Egting Centre Technolog</u>	maxi ante restr abov 3. Corre Read 4. For m of th lowe level mea dete 5. Use t (1) S e (2) S m (3) S p For a duty	surement a imizes the o nna elevati icted to a ra ve the groun ected Readi d Level - Prineasurement e EUT mea tr than the a will be rep surement w ctor and rep he following pan shall w mission bei et RBW=12 weep = aut nax hold; et RBW = - eak measu average mea cycle is no	emissions on for max ange of he nd or refer ing: Anten reamp Fac nt below 1 asured by applicable orted. Oth vill be repe ported. g spectrum vide enoug ing measu 20 kHz for to; Detecto 1 MHz, VE rement. easurement less than	evation sha . The meas kimum emi eights of fro- rence grou na Factor - ctor = Leve GHz, If the the peak d limit, the p erwise, the eated using n analyzer th to fully c ired; f < 1  GHz; or function 3W = 3MHz nt: VBW = 98 percen	surement issions sha om 1 m to 4 nd plane. + Cable Lo e emission etector is 3 peak emiss e emission g the quasi settings: apture the ; VBW≥RB = peak; Tr for f >1 G 10 Hz, who at. VBW≥1/	which all be 4 m oss + level 3 dB ion -peak W; ace = Hz for en T,
Test resul	lts:	the r	n duty cycle ninimum tra smitter is or er control le	ansmission n and is tra	n duration ansmitting	over which at its maxi	n the mum
Test resu	lts:	the r trans	ninimum tra smitter is or	ansmission n and is tra	n duration ansmitting	over which at its maxi	n the mum
Test resul	its:	the r trans	ninimum tra smitter is or	ansmission n and is tra	n duration ansmitting	over which at its maxi	n the mum
Test resul	its:	the r trans	ninimum tra smitter is or	ansmission n and is tra	n duration ansmitting	over which at its maxi	n the mum
Test result	its:	the r trans	ninimum tra smitter is or	ansmission n and is tra	n duration ansmitting	over which at its maxi	n the mum



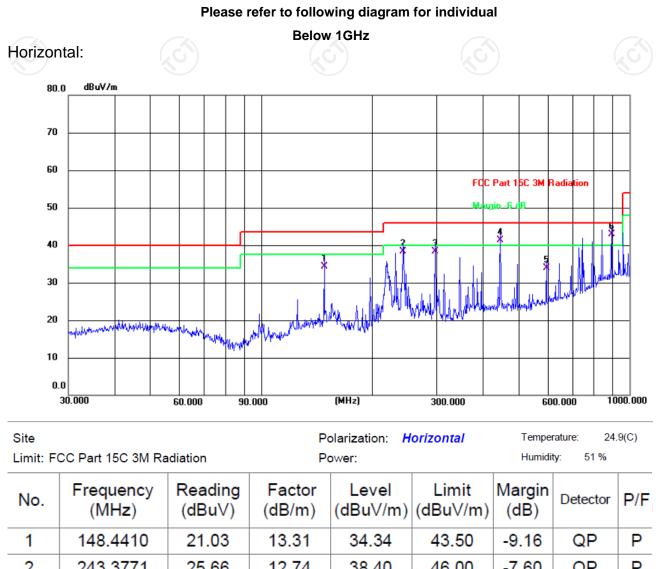
### 5.7.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 07, 2022
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	тст	RE-high-04	N/A	Sep. 02, 2021
Line-8	тст	RE-01	N/A	Sep. 02, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

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### 5.7.3. Test Data



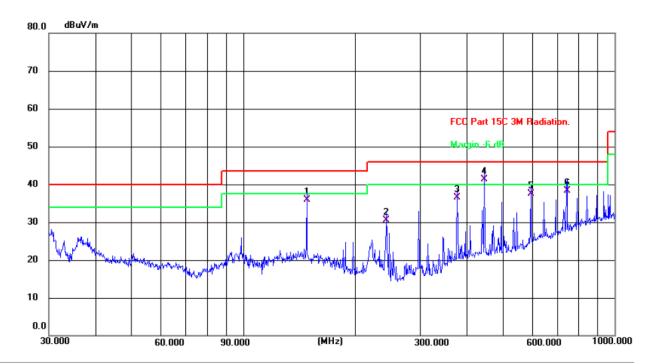
2 12.74 -7.60 243.3771 25.66 38.40 46.00 QP Р 13.80 3 297.2238 24.48 38.28 46.00 -7.72 QP Р 41.28 446.4139 23.03 18.25 46.00 -4.72 QP Р 4 1 5 595.1326 12.67 21.17 33.84 46.00 -12.16 QP Р 16.54 Ρ 6 \* 893.8564 26.41 42.95 46.00 -3.05 QP

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Report No.: TCT210803E005

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### Vertical:



Site Limit: F	CC Part 15C 3M R	adiation.		Polarization: V Power:	/ertical	Temperature: 24.9(C) Humidity: 51 %			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	
1	148.4410	22.59	13.31	35.90	43.50	-7.60	QP	Р	
2	243.3771	17.76	12.74	30.50	46.00	-15.50	QP	Ρ	
3	377.2590	20.11	16.46	36.57	46.00	-9.43	QP	Ρ	
4 *	446.4139	23.05	18.25	41.30	46.00	-4.70	QP	Р	
5	595.1326	16.42	21.17	37.59	46.00	-8.41	QP	Ρ	
6	744.8659	14.44	23.84	38.28	46.00	-7.72	QP	Ρ	
	1								

**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

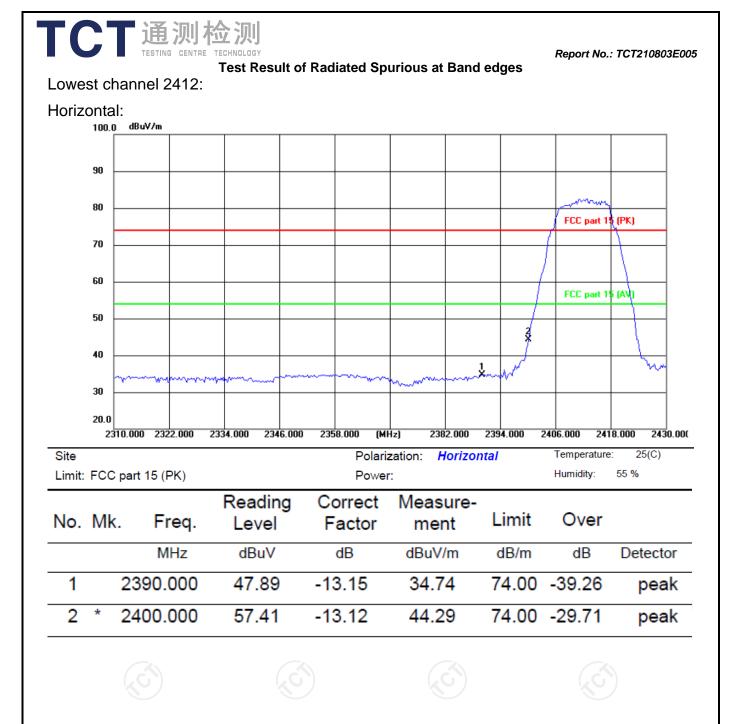
2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b)

3. Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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Report No.: TCT210803E005

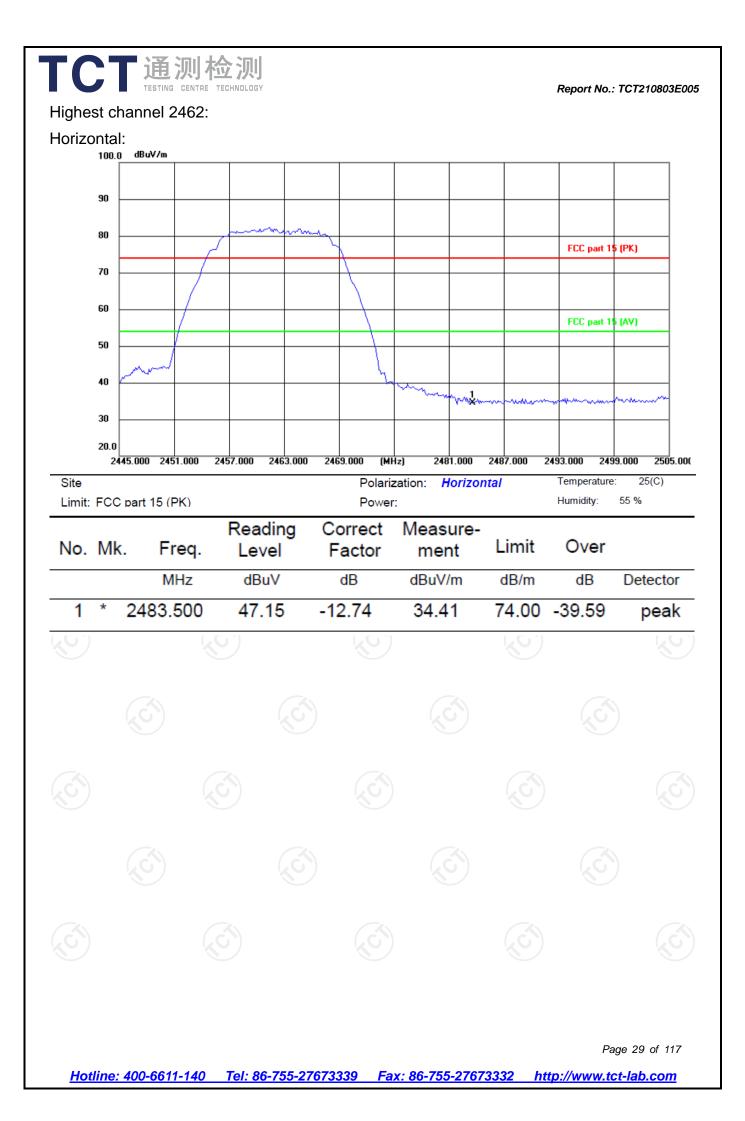


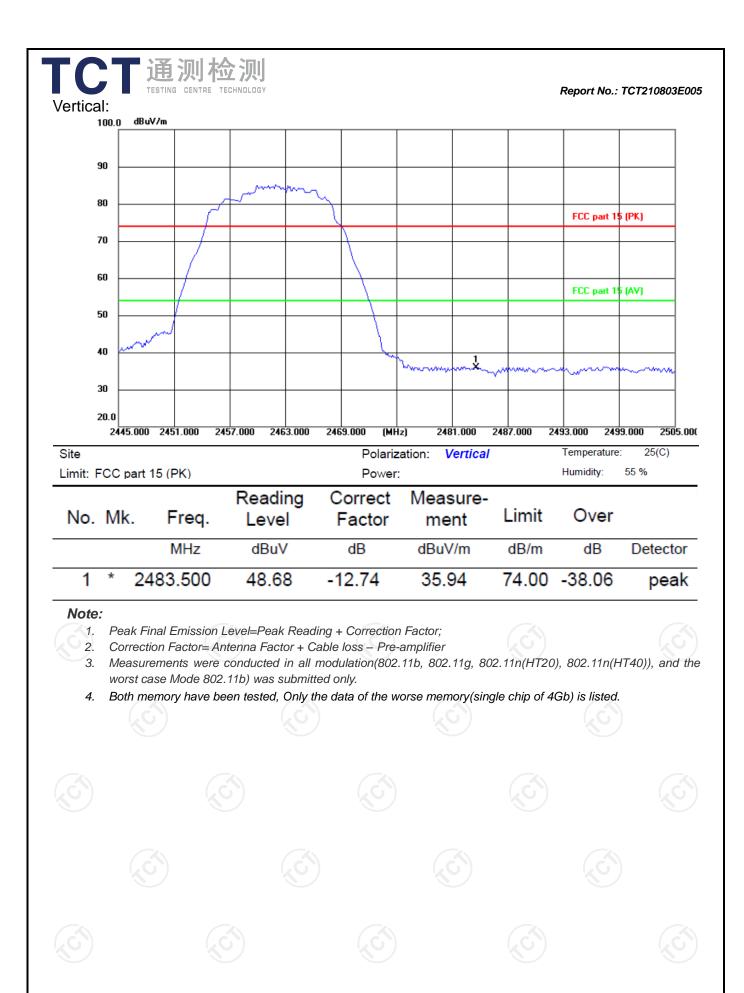


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	100.0	) dBuV/m										
	90											
	80										FCC part 1	5 (PK)
	70											
	60									+	FCC part 1	
	50											
	40								1	3/		
	30	1 Martin	hmm	*******	ad when a	Ann	- market		~~~~~ <b>~</b> ^			
	20.0 23	310.000 232	22.000 2	2334.000 2	346.000	2358.0	100 (MHa	:) 238	2.000 2	394.000 2	406.000 241	8.000 2430.0
Site	FCC	part 15 (F					Polariza Power:	ation: V	ertical		Temperature Humidity:	: 25(C) 55 %
No.		. Fi	req.	Readi Leve		Fa	rect ctor	Meas mei	nt	Limit	Over	
1		м 2390.	IHz	dBu\ 48.9		d -13.		dBuV 35.8		dB/m	dB -38.19	Detector
2	*	2390.		53.1		-13.		40.0			-33.93	peak peak
<u> </u>			  6	2			87			87		





### Above 1GHz Modulation Type: 802.11b

			L	ow channe.	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	47.37		0.75	48.12		74	54	-5.88
7236	Н	36.84		9.87	46.71		74	54	-7.29
	Н								
4824	V	44.72		0.75	45.47		74	54	-8.53
7236	V	33.96		9.87	43.83	<u> </u>	74	54	-10.17
	V							)	

			М	iddle chann	el: 2437MH	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	47.14		0.97	48.11		74	54	-5.89
7311	H	34.52		9.83	44.35		74	54	-9.65
	(H)		<del>(</del> , G	)	( ,	G`)		$(-G^{-})$	
					<				
4874	V	48.97		0.97	49.94		74	54	-4.06
7311	V	39.33		9.83	49.16		74	54	-4.84
	V				×				
(XC)		KC.	)		)		<u>x</u> ()		( U)

			H	ligh channe	el: 2462 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	(H)	45.98	+_C	1.18	47.16	G '}	74	54	-6.84
7386	H	37.37		10.07	47.44		74	54	-6.56
	Н								
4924	V	49.75		1.18	50.93		74	54	-3.07
7386	V	40.54		10.07	50.61		74	54	-3.39
	V								

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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	TESTING	アパリイビ CENTRE TECHN	IOLOGY				Rej	oort No.: TCT	210803E00
			M	odulation T	ype: 802.11	lg			
			L	ow channe.	I: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	41.91		0.75	42.66		74	54	-11.34
7236	Н	33.85		9.87	43.72		74	54	-10.28
	Н						· · · ·		$\sim$
4824	V	42.49		0.75	43.24		74	54	-10.76
7236	V	33.97		9.87	43.84	<u> </u>	74	54	-10.16
	V			/	X			<u> </u>	

	Middle channel: 2437MHz													
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)					
4874	Н	42.48		0.97	43.45		74	54	-10.55					
7311	Н	35.96		9.83	45.79		74	54	-8.21					
	H													
	$(\mathcal{O})$		60			G)		$(\mathcal{O})$						
4874	V	42.89		0.97	43.86		74	54	-10.14					
7311	V	35.03		9.83	44.86		74	54	-9.14					
	V													
					2									

$(\chi O)$	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	H	43.27	( )	1.18	44.45		74	54	-9.55		
7386	E.	34.86		10.07	44.93	0.)	74	54	-9.07		
	Ĥ										
								. <u> </u>			
4924	V	41.54		1.18	42.72		74	54	-11.28		
7386	V	33.22		10.07	43.29		74	54	-10.71		
	V	<u> </u>		%			$\sim$ $\neq$				

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

一 活测检测

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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	TESTING	测检 CENTRE TECHN		ation Type	: 802.11n (ł	-T20)	Rej	port No.: TCT	210803E00
					I: 2412 MH	,			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	44.51		0.75	45.26		74	54	-8.74
7236	Н	35.72		9.87	45.59		74	54	-8.41
$\sim$	Н						<u> </u>		$\sim$
4824	V	44.89		0.75	45.64		74	54	-8.36
7236	V	34.93		9.87	44.80		74	54	-9.20
	V			/	%	)		· · · ·	

			M	iddle chann	el: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	46.54		0.97	47.51		74	54	-6.49
7311	Н	36.07		9.83	45.90		74	54	-8.10
	H								
	$(\mathcal{O})$		60	<b>`</b> )	(,	G)		$(\mathcal{S})$	
4874	V	44.84		0.97	45.81		74	54	-8.19
7311	V	34.77		9.83	44.60		74	54	-9.40
	V								

		н	ligh channe	I: 2462 MH	Z			
Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
H	44.18	( )	1.18	45.36		74	54	-8.64
E C	33.39		10.07	43.46	0')	74	54	-10.54
H								
V	42.92		1.18	44.10		74	54	-9.90
V	33.47		10.07	43.54		74	54	-10.46
V			🔨	/		<u> </u>		
	H/V H H	Ant. Pol.         reading (dBµV)           H         44.18           H         33.39           H            V         42.92           V         33.47	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)           H         44.18            H         33.39            H             V         42.92            V         33.47	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)           H         44.18          1.18           H         33.39          10.07           H           1.18           V         42.92          1.18           V         33.47          10.07	Ant. Pol. H/V         Peak reading (dBµV)         AV reading (dBµV)         Correction Factor (dB/m)         Emission Peak (dBµV/m)           H         44.18          1.18         45.36           H         33.39          10.07         43.46           H               V         42.92          1.18         44.10           V         33.47          10.07         43.54	Ant. Pol. H/V         reading (dBµV)         AV reading (dBµV)         Factor (dB/m)         Peak (dBµV/m)         AV (dBµV/m)           H         44.18          1.18         45.36            H         33.39          10.07         43.46            H                V         42.92          1.18         44.10            V         33.47          10.07         43.54	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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TC	TESTING	测检 CENTRE TECHN					Rej	oort No.: TCT	210803E005
				lation Type:		,			
			L	ow channe	I: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	42.98		0.75	43.73		74	54	-10.27
7266	Н	33.37		9.87	43.24		74	54	-10.76
$\sim$	Н			2			<u> </u>		$\sim$
4824	V	42.87		0.75	43.62		74	54	-10.38
7236	V	32.42		9.87	42.29		74	54	-11.71
	V			/	🖔			····	

Middle channel: 2437MHz										
Frequency (MHz)	$  H_{\Lambda}  $ reading $  (dB_{II})  $ racio Peak AV		-	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4874	Н	44.02		0.97	44.99		74	54	-9.01	
7311	Н	33.97		9.83	43.80		74	54	-10.20	
	H									
	$(\mathcal{O})$		(J)	<b>`</b> ]	(,	G)		$(\mathcal{O})$		
4874	V	42.47		0.97	43.44		74	54	-10.56	
7311	V	32.36		9.83	42.19		74	54	-11.81	
	V									
					2					

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			N.	) F	ligh channe	el: 2452 MH	Z			10)
7356       H       33.78        10.07       43.85        74       54       -10.7          H <t< td=""><td>Frequency (MHz)</td><td></td><td>reading</td><td>AV reading (dBµV)</td><td>Factor</td><td>Peak</td><td>AV</td><td>Peak limit (dBµV/m)</td><td></td><td>Margin (dB)</td></t<>	Frequency (MHz)		reading	AV reading (dBµV)	Factor	Peak	AV	Peak limit (dBµV/m)		Margin (dB)
H	4904	H	44.17	6	1.18	45.35		74	54	-8.65
4904         V         42.95          1.18         44.13          74         54         -9.8           7356         V         35.19          10.07         45.26          74         54         -8.7	7356	E H	33.78	<u>1</u> ,C	10.07	43.85	0.)	74	54	-10.15
7356 V 35.19 10.07 45.26 74 54 -8.7		Ĩ								
7356 V 35.19 10.07 45.26 74 54 -8.7										
	4904	V	42.95		1.18	44.13		74	54	-9.87
···· V ···· ··· ··· ··· ··· ··· ··· ···	7356	V	35.19		10.07	45.26		74	54	-8.74
		V				/				

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/m)

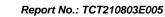
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

5. Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. Both memory have been tested, Only the data of the worse memory(single chip of 4Gb) is listed.

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## Appendix A: Test Result of Conducted Test

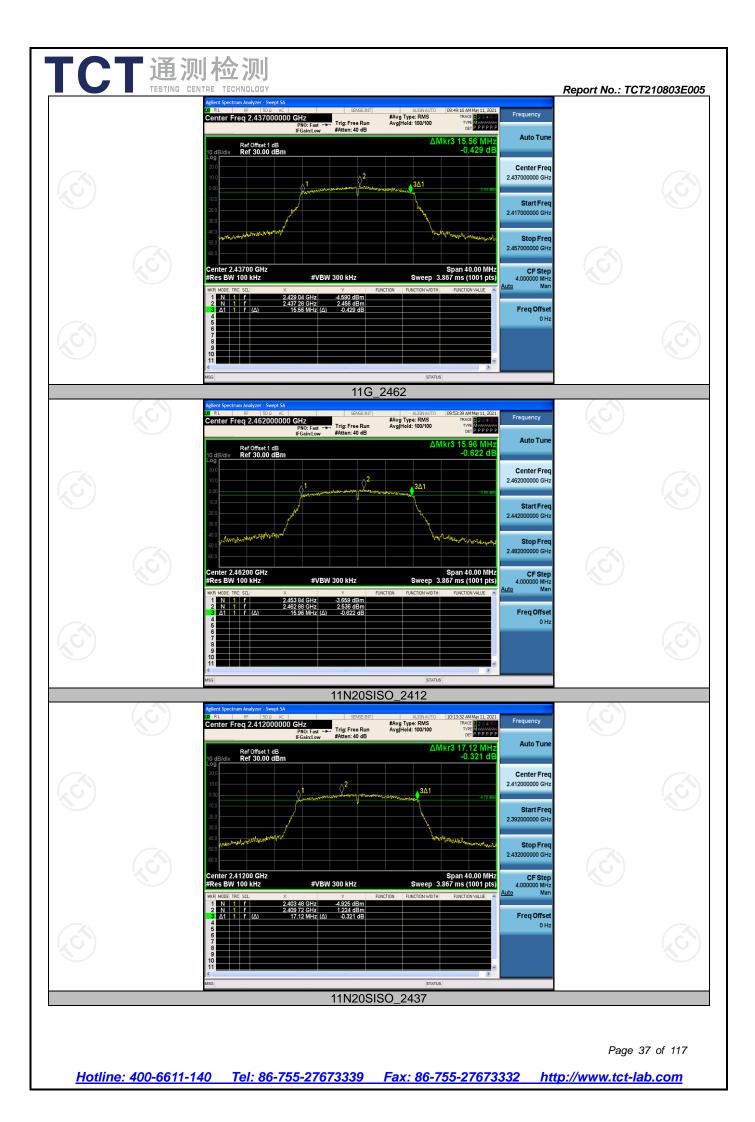
Antenna 1

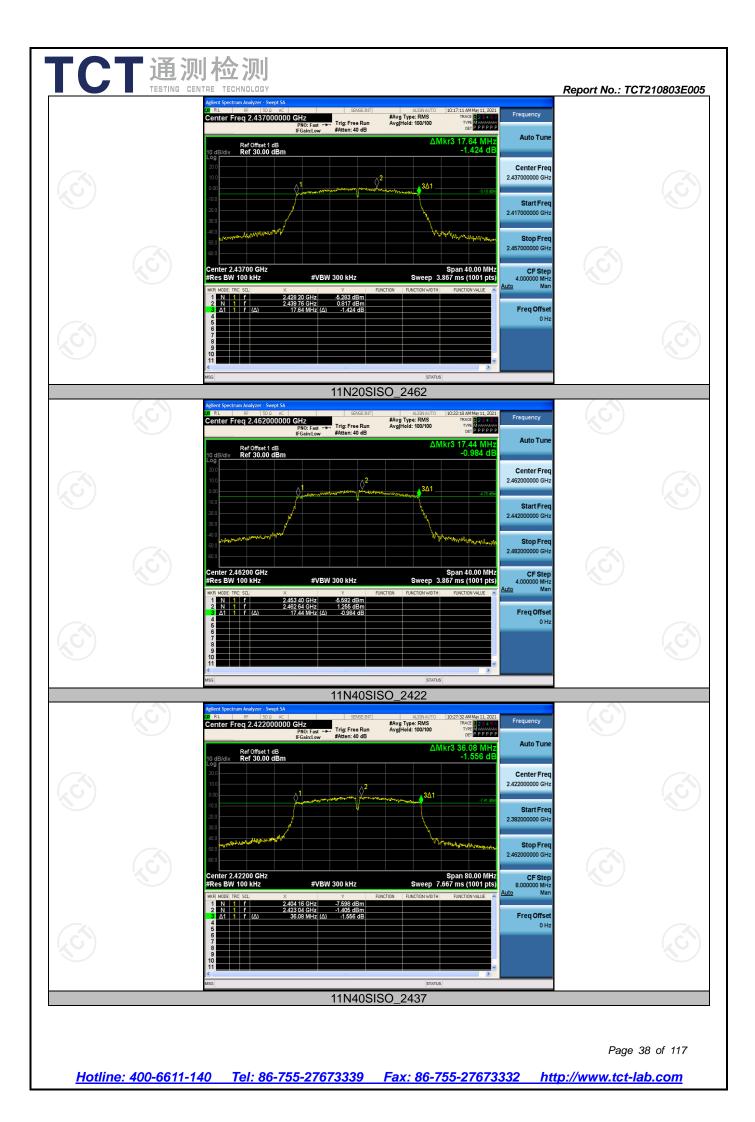
			DTS	Bandwid	th		
Test	Result	No.	)				No.
	Test Mode	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.080	2407.440	2416.520	0.5	PASS
	11B	2437	8.640	2432.920	2441.560	0.5	PASS
		2462	9.160	2457.400	2466.560	0.5	PASS
	11G	2412	15.920	2404.040	2419.960	0.5	PASS
		2437	15.560	2429.040	2444.600	0.5	PASS
		2462	15.960	2453.840	2469.800	0.5	PASS
		2412	17.120	2403.480	2420.600	0.5	PASS
	11N20SISO	2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.440	2453.400	2470.840	0.5	PASS
	11N40SISO	2422	36.080	2404.160	2440.240	0.5	PASS
		2437	35.920	2419.080	2455.000	0.5	PASS
		2452	35.600	2434.400	2470.000	0.5	PASS
	KC	)	(x0)			KC	

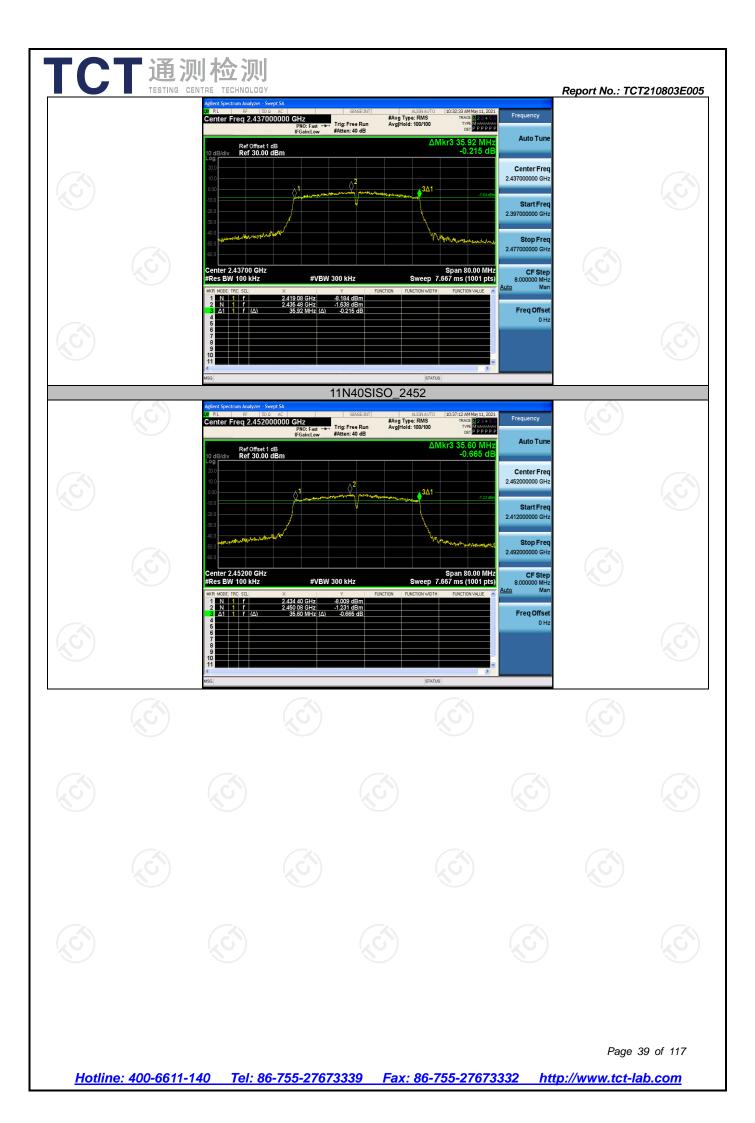
### Test Graphs











#### Report No.: TCT210803E005

# Maximum conducted output power

## **Test Result**

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
	2412	15.55	<=30	PASS
11B	2437	14.38	<=30	PASS
	2462	15.13	<=30	PASS
11G	2412	14.03	<=30	PASS
	2437	14.88	<=30	PASS
	2462	14.83	<=30	PASS
11N20SISO	2412	14.31	<=30	PASS
	2437	14.20	<=30	PASS
	2462	14.23	<=30	PASS
11N40SISO	2422	14.63	<=30	PASS
	2437	14.26	<=30	PASS
	2452	14.33	<=30	PASS

## **Test Graphs**



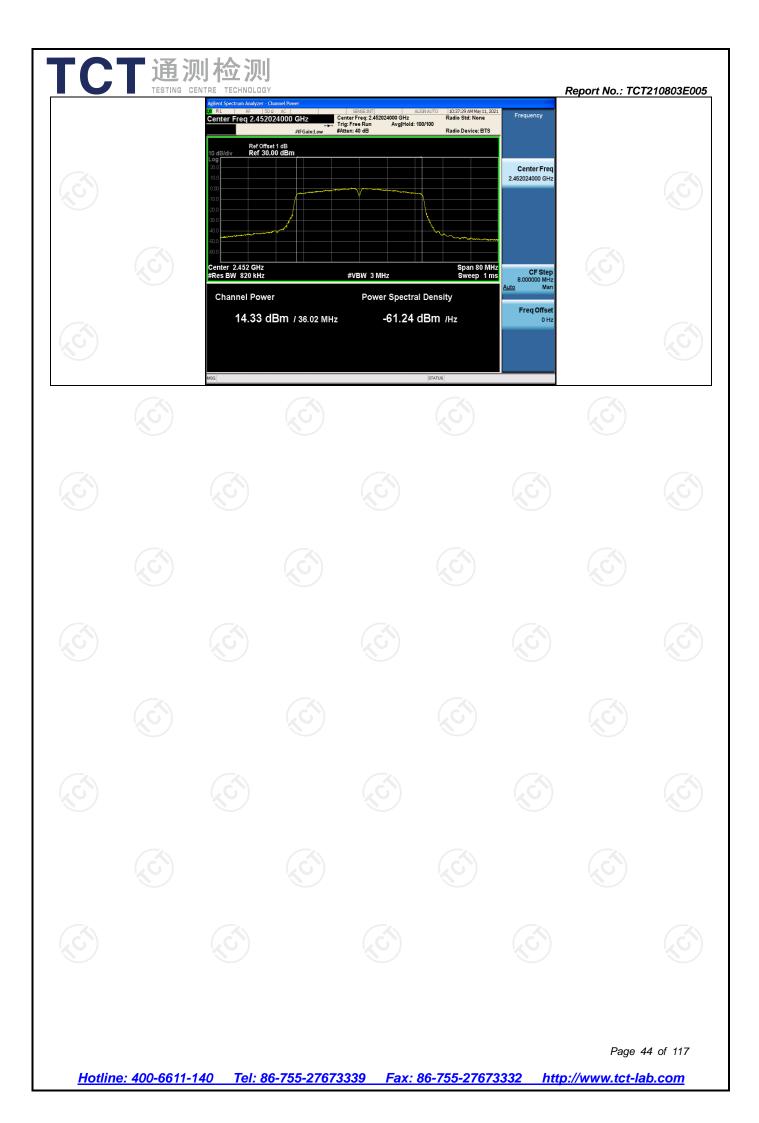
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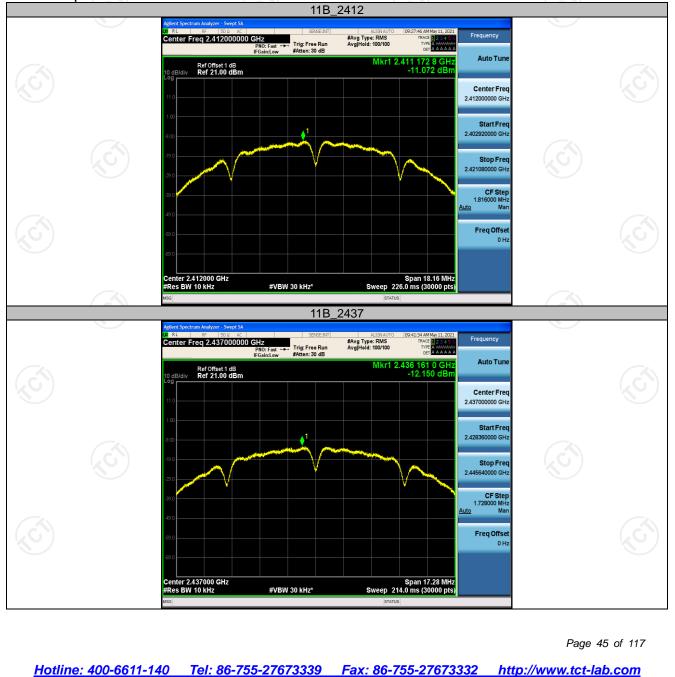
#### Report No.: TCT210803E005

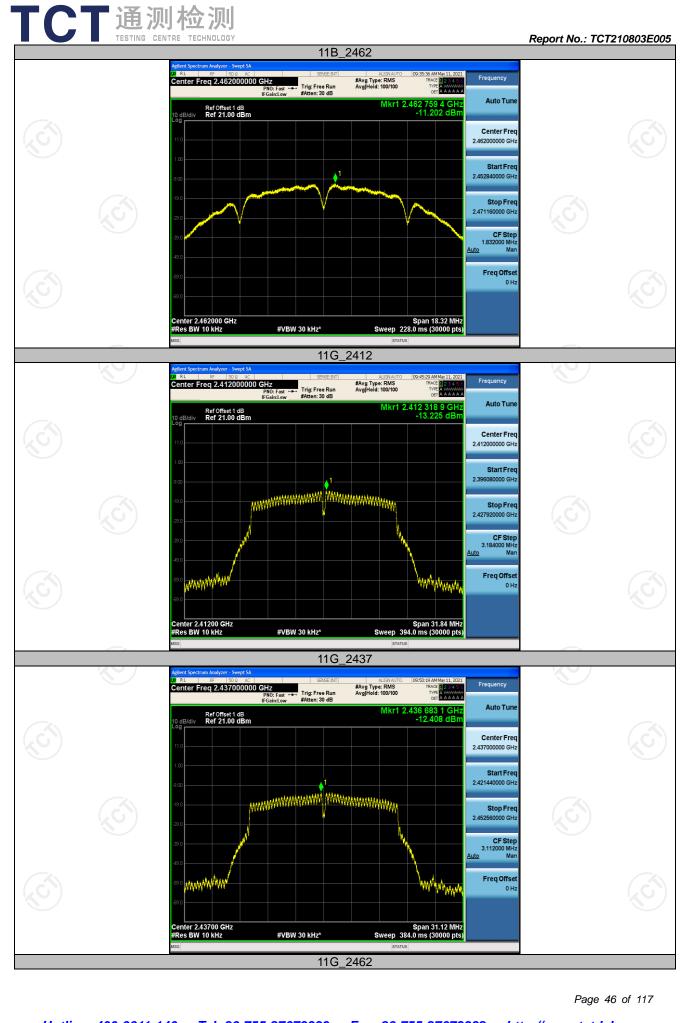
# Maximum power spectral density

## **Test Result**

Test Mode	Channel	Result[dBm/10kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11В	2412	-11.07	-16.30	<=8	PASS
	2437	-12.15	-17.38	<=8	PASS
	2462	-11.20	-16.43	<=8	PASS
11G	2412	-13.23	-18.46	<=8	PASS
	2437	-12.41	-17.64	<=8	PASS
	2462	-12.45	-17.68	<=8	PASS
11N20SISO	2412	-13.19	-18.42	<=8	PASS
	2437	-13.46	-18.69	<=8	PASS
	2462	-13.37	-18.60	<=8	PASS
11N40SISO	2422	-16.06	-21.29	<=8	PASS
	2437	-16.30	-21.53	<=8	PASS
	2452	-16.40	-21.63	<=8	PASS

## **Test Graphs**





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